

Alaska Scientific Crime Detection Laboratory

DataMaster Evaluation Form

Effective: 1/18/2024

Version: 4.0

Instrument #: 100380

Analyst/Technician(s): Carlie Glaister

Start Date: 3/5/2025

Date Instrument Received: 3/5/2025

Reason for instrument evaluation

Broken breath tube & status messages (gas flow error, interference, blank error).

Visual Inspection:

☒ Clean

☒ Replace missing screws

☒ Cermetex Box (modem) is secure

☒ Ensure modem cable present

☒ Double Check Valve secured to wall

☒ All tubing and connections secure

☒ O-ring inspection and ensure 2 replacement O-rings in bag

☒ Attach VOC

☒ VOC Internal Standard $\leq 3.00\%$

☒ Verify software version

Condition of item: ☐ No apparent damage ☒ Damaged

NOTE: As Found Linearity is required if the instrument is not damaged and the internal standard value is not more than 4.00%

As Found Conditions (if performed):

Barometric Pressure (inHg): 22.5 Temperature (C): 29.3 Relative Humidity (%): 18
29.13 CKG 3/5/2025 22.5 CKG 3/5/2025

Linearity Test Levels (g/210L): 0.020, 0.080, 0.300

Notes: Breath tube appears intact. Instrument restarted itself when opening the top. Reinstalled 3.02 software. First VOC attempt had a gas flow error. Instrument turned off part way through second VOC. Instrument would not turn back on. Moved to a different wall outlet & power cord. Instrument would not turn on. Opened top, visualized green light

☒ Attach Non-Drinking Subject Test in power supply. Attempted to turn on the instrument again & it successfully turned on. 2nd VOC attempt did not save data.

Conclusion:

☐ Ready for Adjustment

☒ Needs Repair

☐ Ready for Calibration

Lab Work End Date: 3/5/2025

Page 1 of 1

All printed copies are uncontrolled.

Approved by: Chemistry Supervisor
hard. Unusual detector response on first attempt. Appears to be a functional issue related to power supply & breath hose or pathway.

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/05/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.12: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 355 psi

BLANK TEST 0.000 14:07
INTERNAL STANDARD VERIFIED 14:07
Xq = 0.087 (0.30%)

Gas Flow Error

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 48.9°C PASSED
(44.0°C - 52.0°C)
Breath Tube = 44.2°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.58 V PASSED
(1.00 V - 2.32 V)
Cooler Voltage = 1.92 V PASSED
(0.95 V - 2.23 V)
Bias Voltage = 80 V PASSED
(48 V - 112 V)
Chopper Freq = 511 Hz PASSED
(475 Hz - 575 Hz)
Barometer = 29.1 in

PUMP INFO

Flow Rate = 4.548 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED
(0.002 V <= 0.010 V)
PUMP OFF PASSED
(0.001 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED
Filter 2 PASSED
Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.085 1.81% (0.00% - 4.00%) PASSED

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/05/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.11: 0.078

LOT #: AG335202

EXPIRATION: 12/18/2025

TANK PRESSURE: 336 psi

BLANK TEST 0.000 14:42

INTERNAL STANDARD VERIFIED 14:42

Xq = 0.086 (0.50%)

EXTERNAL STANDARD INTERFERENCE 14:42

X[1] = 0.0726 (-0.0010) (0.0054)

Blank Error

Diagnostic Check

VERSIONS

DMT: 3.02

PIC: 3.02

Modem: 2.6

Questions: 2.2

TEMPERATURES

Sample Chamber = 48.6°C PASSED
(44.0°C - 52.0°C)

Breath Tube = 38.4°C PASSED
(38.0°C - 50.0°C)

SETTINGS

Lamp Voltage = 1.58 V PASSED
(1.00 V - 2.32 V)

Cooler Voltage = 1.92 V PASSED
(0.95 V - 2.23 V)

Bias Voltage = 80 V PASSED
(48 V - 112 V)

Chopper Freq = 516 Hz PASSED
(475 Hz - 575 Hz)

Barometer = 29.1 in

PUMP INFO

Flow Rate = 4.675 L/M PASSED
(3.500 L/M - 6.500 L/M)

DETECTOR INFO

PUMP ON PASSED

(0.005 V <= 0.010 V)

PUMP OFF PASSED

(0.004 V <= 0.010 V)

FILTER INFO

Filter 1 PASSED

Filter 2 PASSED

Filter 3 PASSED

INTERNAL STANDARD

Xq = 0.084 2.52% PASSED
(0.00% - 4.00%)

VERIFICATION OF CALIBRATION REPORT

of DataMaster dmt Breath Test Instrument

State of Alaska

Serial #: 100380

Scientific Crime Detection Laboratory - Statewide Breath Alcohol Program

Date: 03/05/2025

External Standard Test Values

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.11: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 332 psi

BLANK TEST	0.000	14:49
INTERNAL STANDARD	VERIFIED	14:49
Xq = 0.087 (0.10%)		
EXTERNAL STANDARD	0.074	14:49
X[1] = 0.0739 (-0.0013) (0.0033)		
BLANK TEST	0.000	14:50
EXTERNAL STANDARD	0.074	14:50
X[1] = 0.0741 (-0.0009) (0.0035)		
BLANK TEST	0.000	14:51
EXTERNAL STANDARD	0.074	14:51
X[1] = 0.0740 (-0.0013) (0.0029)		
BLANK TEST	0.000	14:52
EXTERNAL STANDARD	0.075	14:52
X[1] = 0.0746 (-0.0005) (0.0035)		
BLANK TEST	0.000	14:53
EXTERNAL STANDARD	0.074	14:53
X[1] = 0.0743 (-0.0014) (0.0028)		
BLANK TEST	0.000	14:54

Average = 0.0742
Std Dev = 0.0004

Diagnostic Check

VERSIONS

DMT: 3.02
PIC: 3.02
Modem: 2.6
Questions: 2.2

TEMPERATURES

Sample Chamber = 49.1°C	PASSED
(44.0°C - 52.0°C)	
Breath Tube = 41.7°C	PASSED
(38.0°C - 50.0°C)	

SETTINGS

Lamp Voltage = 1.58 V	PASSED
(1.00 V - 2.32 V)	
Cooler Voltage = 1.92 V	PASSED
(0.95 V - 2.23 V)	
Bias Voltage = 80 V	PASSED
(48 V - 112 V)	
Chopper Freq = 517 Hz	PASSED
(475 Hz - 575 Hz)	
Barometer = 29.1 in	

PUMP INFO

Flow Rate = 4.650 L/M	PASSED
(3.500 L/M - 6.500 L/M)	

DETECTOR INFO

PUMP ON	PASSED
(0.004 V <= 0.010 V)	
PUMP OFF	PASSED
(0.003 V <= 0.010 V)	

FILTER INFO

Filter 1	PASSED
Filter 2	PASSED
Filter 3	PASSED

INTERNAL STANDARD

Xq = 0.086	0.81%	(0.00% - 4.00%)	PASSED
------------	-------	-----------------	--------

LINEARITY CHECK

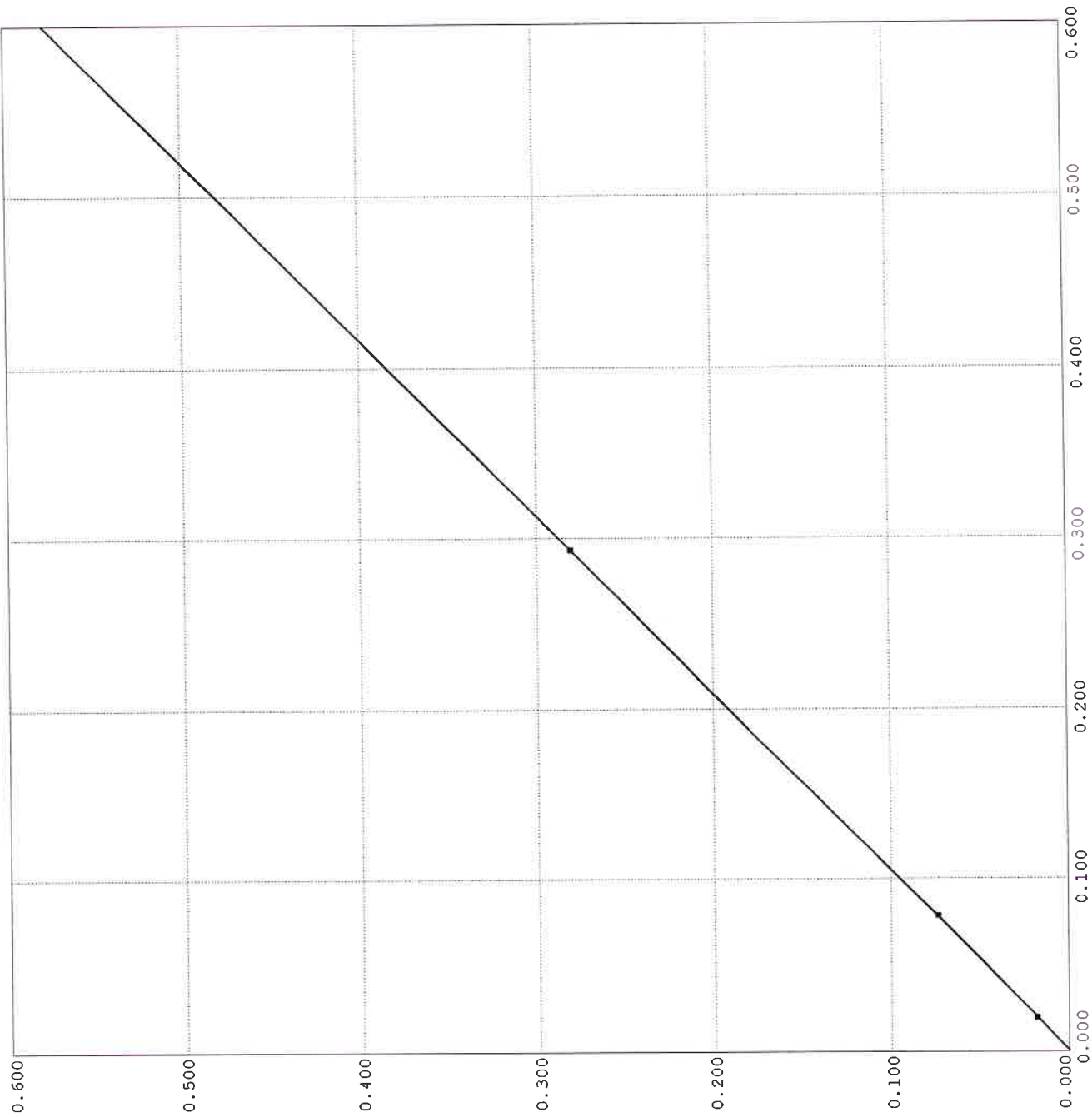
Alaska Department of Public Safety
 DATAMASTER dmt: 100380

Date: 03/05/2025
 Time: 14:56:35

SUPERVISOR NAME:
 CARLIE GLAISTER
 OPERATOR'S #: 10436

TARGET	AVERAGE	STD. DEV.
0.019	0.0186	0.0005
0.078	0.0744	0.0005
0.292	0.2814	0.0005

SLOPE = 0.963884
 R^2 = 0.999984



OK

LINEARITY CHECK: Control Test 1

Alaska Department of Public Safety
DATAMASTER dmt: 100380

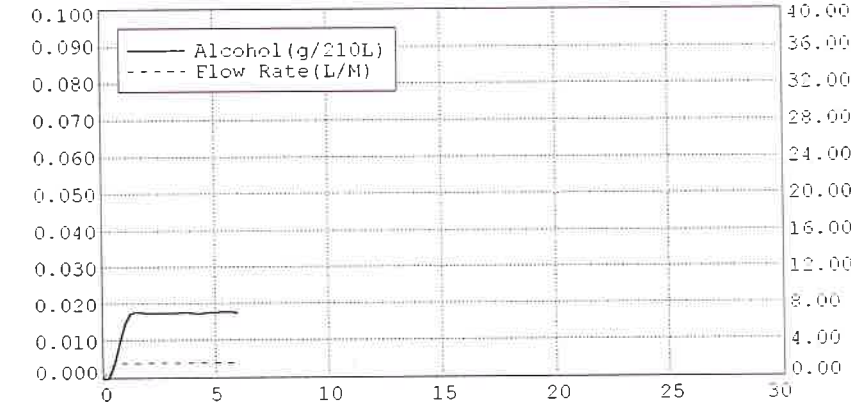
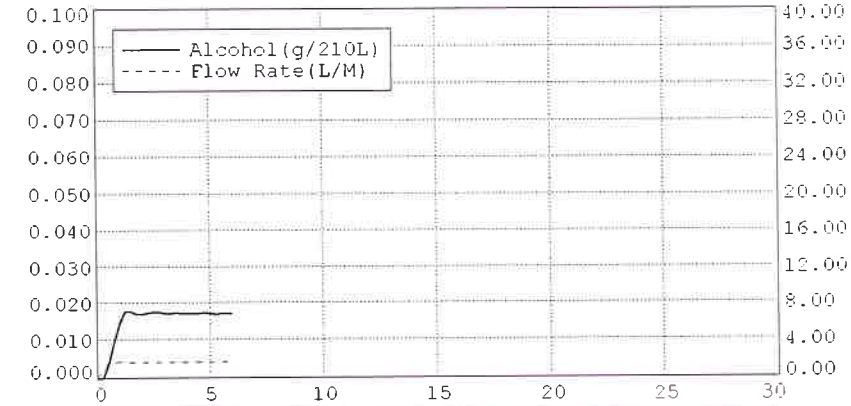
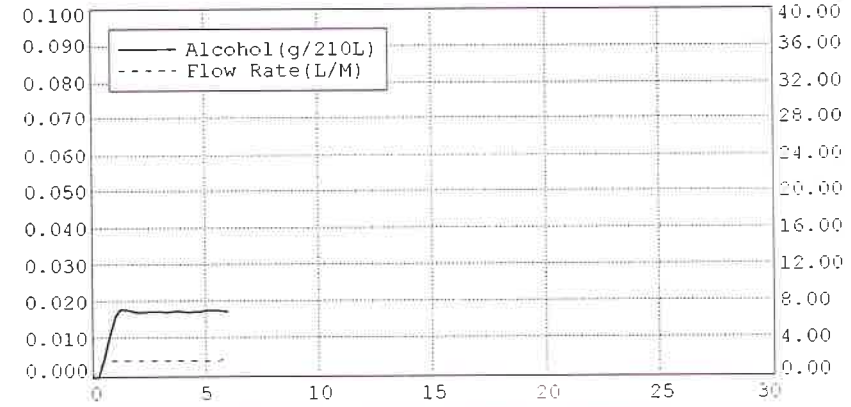
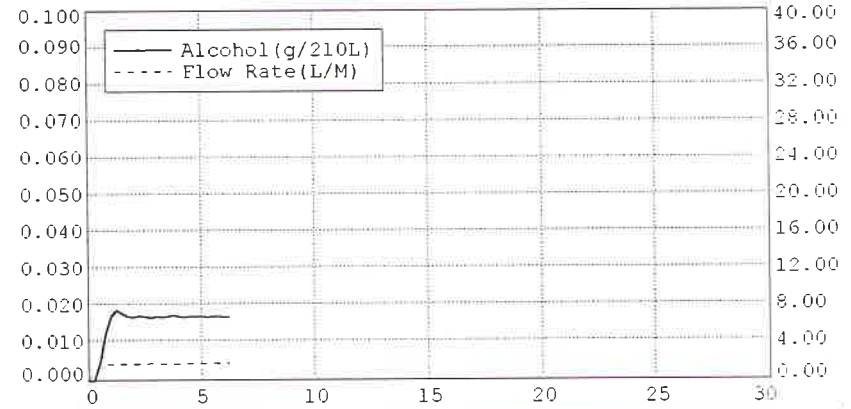
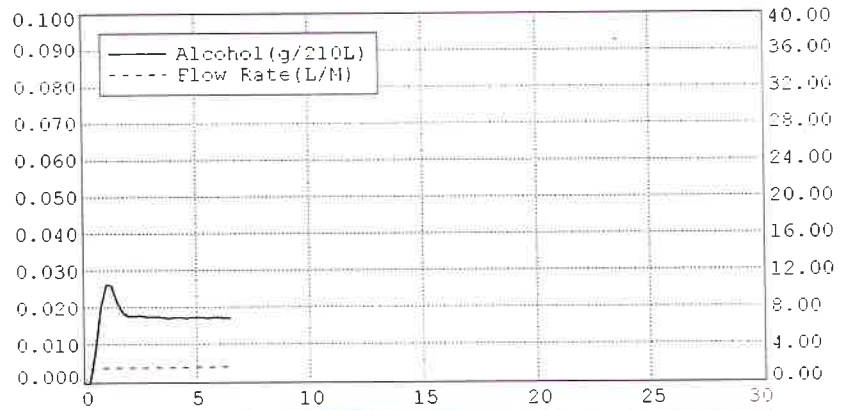
Date: 03/05/2025
Time: 14:56:37

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.020
TARGET AT 29.11: 0.019
LOT #: AG408002
EXPIRATION: 03/20/2026
TANK PRESSURE: 461 psi

BLANK TEST	0.000	14:57
INTERNAL STANDARD	VERIFIED	14:58
EXTERNAL STANDARD	0.018	14:58
BLANK TEST	0.000	14:59
EXTERNAL STANDARD	0.018	14:59
BLANK TEST	0.000	15:00
EXTERNAL STANDARD	0.019	15:00
BLANK TEST	0.000	15:01
EXTERNAL STANDARD	0.019	15:01
BLANK TEST	0.000	15:02
EXTERNAL STANDARD	0.019	15:02
BLANK TEST	0.000	15:03

Average = 0.0186
Std Dev = 0.0005



LINEARITY CHECK: Control Test 2

Alaska Department of Public Safety
DATAMASTER dmt: 100380

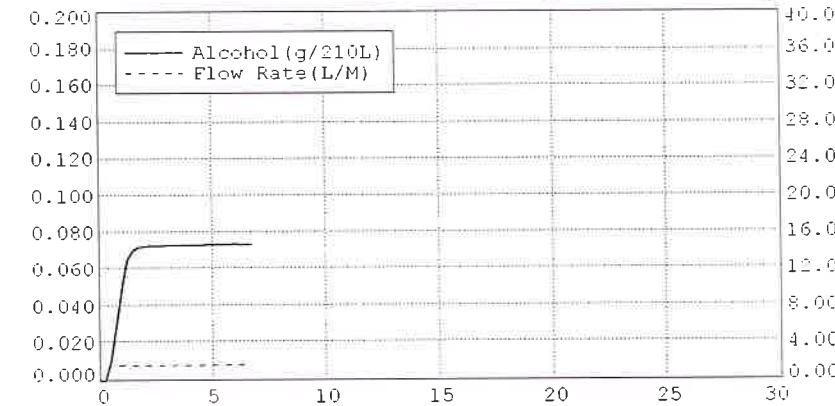
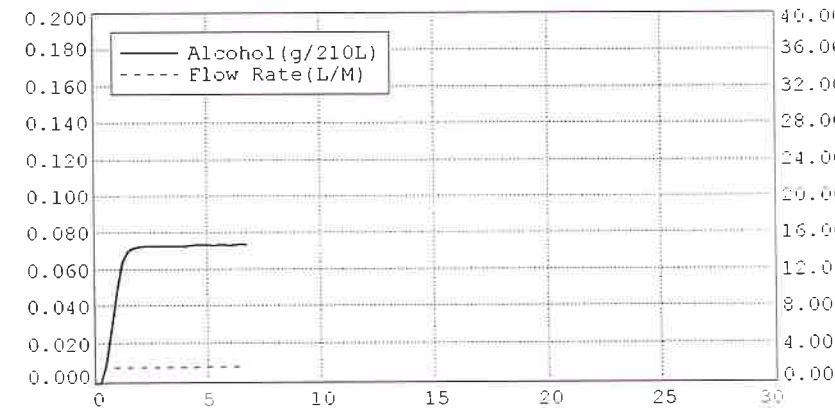
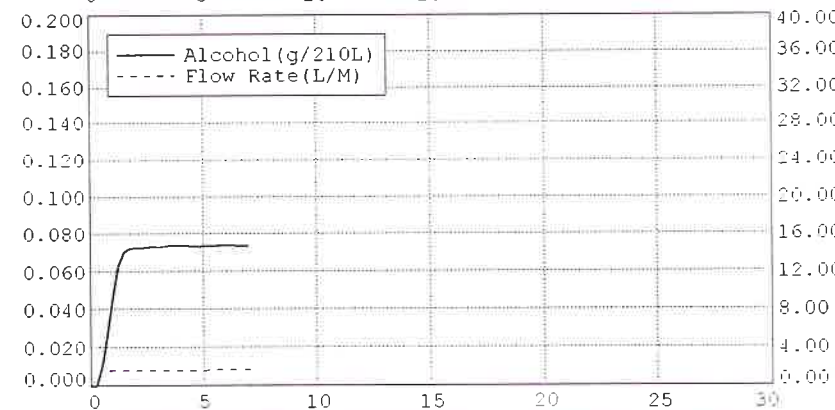
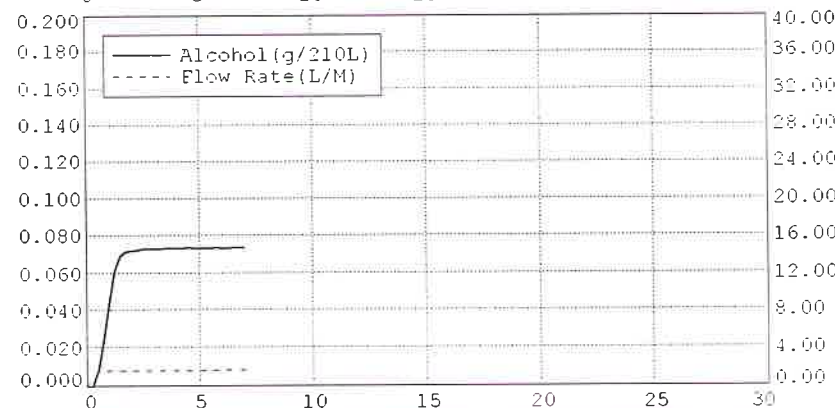
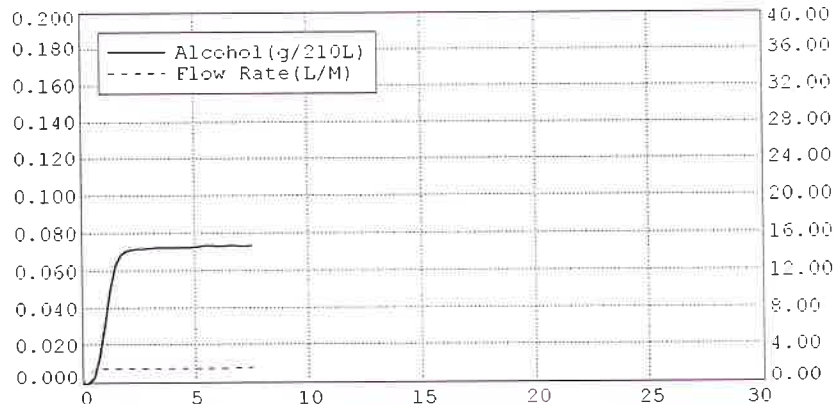
Date: 03/05/2025
Time: 15:04:25

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080
TARGET AT 29.11: 0.078
LOT #: AG335202
EXPIRATION: 12/18/2025
TANK PRESSURE: 313 psi

BLANK TEST	0.000	15:05
INTERNAL STANDARD	VERIFIED	15:05
EXTERNAL STANDARD	0.074	15:06
BLANK TEST	0.000	15:07
EXTERNAL STANDARD	0.075	15:07
BLANK TEST	0.000	15:08
EXTERNAL STANDARD	0.075	15:08
BLANK TEST	0.000	15:09
EXTERNAL STANDARD	0.074	15:09
BLANK TEST	0.000	15:10
EXTERNAL STANDARD	0.074	15:10
BLANK TEST	0.000	15:11

Average = 0.0744
Std Dev = 0.0005



LINEARITY CHECK: Control Test 3

Alaska Department of Public Safety
DATAMASTER dmt: 100380

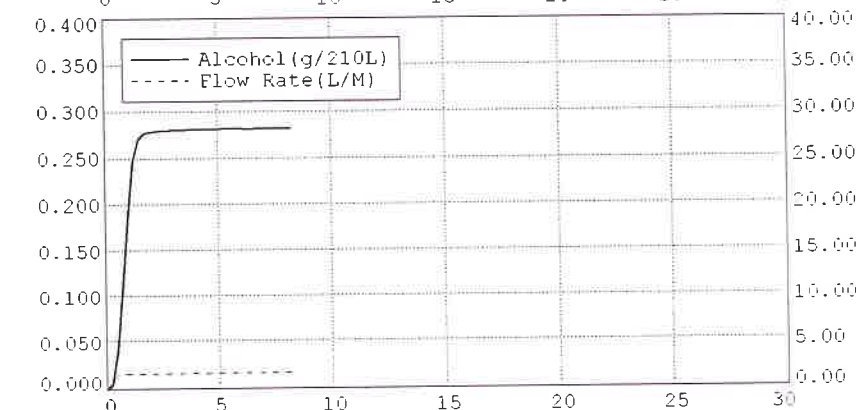
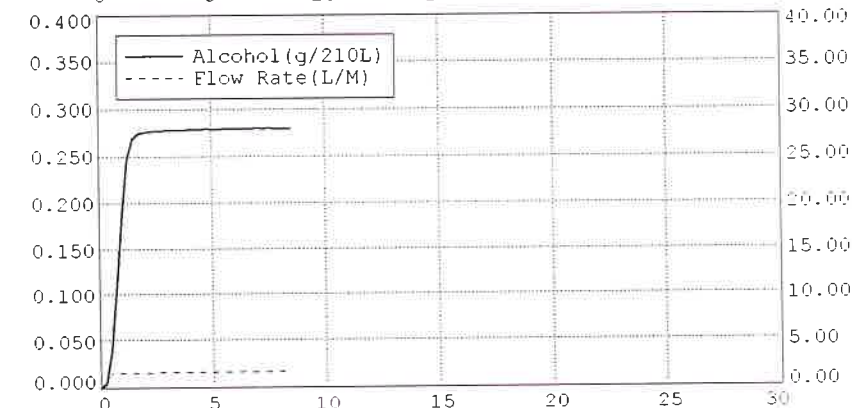
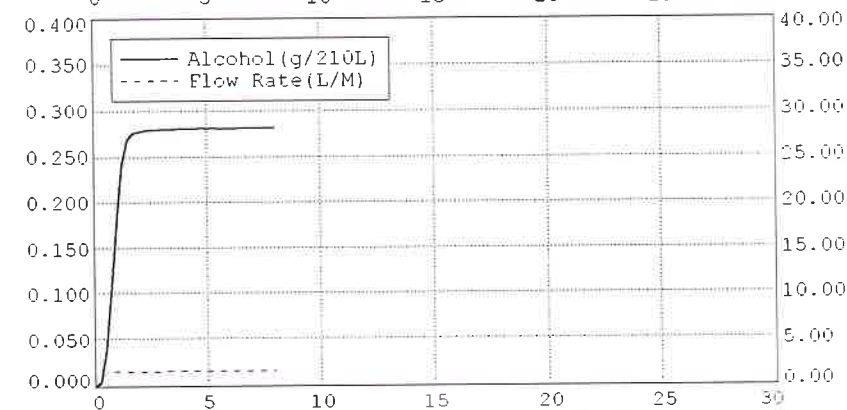
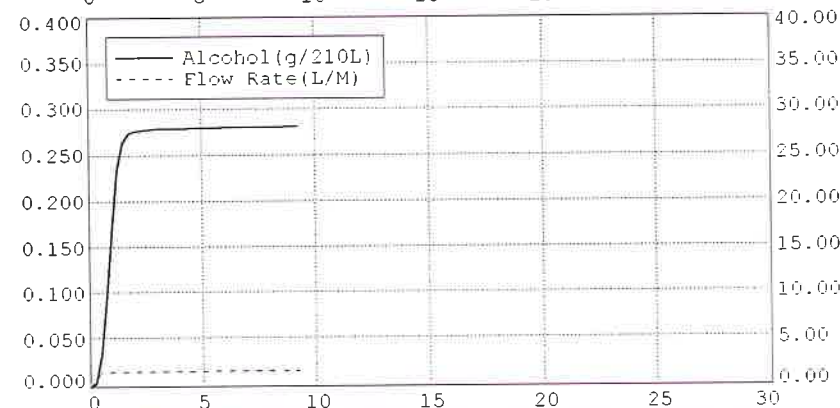
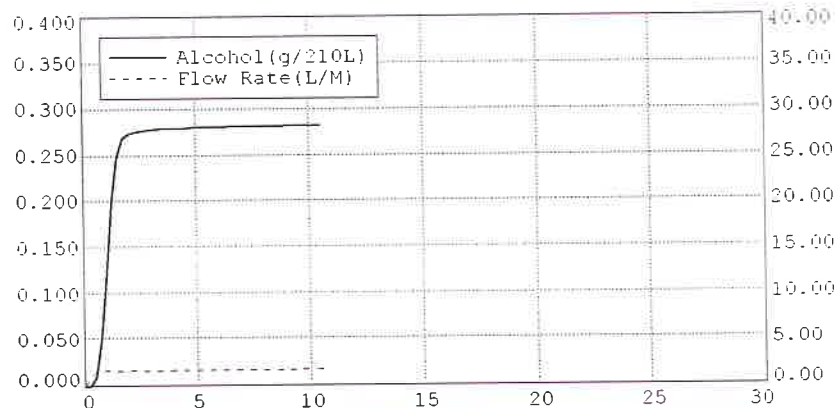
Date: 03/05/2025
Time: 15:12:18

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.300
TARGET AT 29.11: 0.292
LOT #: AG427706
EXPIRATION: 10/03/2026
TANK PRESSURE: 317 psi

BLANK TEST	0.000	15:13
INTERNAL STANDARD	VERIFIED	15:13
EXTERNAL STANDARD	0.282	15:14
BLANK TEST	0.000	15:15
EXTERNAL STANDARD	0.281	15:15
BLANK TEST	0.000	15:16
EXTERNAL STANDARD	0.281	15:16
BLANK TEST	0.000	15:17
EXTERNAL STANDARD	0.281	15:17
BLANK TEST	0.000	15:18
EXTERNAL STANDARD	0.282	15:18
BLANK TEST	0.000	15:19

Average = 0.2814
Std Dev = 0.0005



SUBJECT TEST

Alaska Department of Public Safety

DATAMASTER dmt: 100380

Date: 03/05/2025

Time: 15:24:59

SUBJECT NAME:

TEST TEST

LICENSE #: XXXX

OPERATOR NAME:

CARLIE GLAISTER

OPERATOR'S #: 10436

DEPT/AGENCY:

NON-DRINKING SUBJECT TEST

CASE/REPORT: XXXX

TEST TYPE: TEST

EXTERNAL STANDARD INFORMATION

NOMINAL: 0.080

TARGET AT 29.11: 0.078

LOT #: AG335202

EXPIRATION: 12/18/2025

DIAGNOSTIC CHECK	PASSED	15:25
BLANK TEST	0.000	15:26
INTERNAL STANDARD	VERIFIED	15:26
EXTERNAL STANDARD	0.075	15:26
BLANK TEST	0.000	15:27
SUBJECT SAMPLE (Vol=1.60L)	0.000	15:28
BLANK TEST	0.000	15:29
EXTERNAL STANDARD	0.076	15:29
BLANK TEST	0.000	15:30

CXO

